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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
08/905,709	08/05/1997	DAVID STERN	52876/JPW/JM	5754
7590 11/12/2003			EXAMINER	
COOPER & DUNHAM			LI, RUIXIANG	
1185 AVENUE OF THE AMERICAS NEW YORK, NY 10036			ART UNIT	PAPER NUMBER
,			1646	
			DATE MAILED: 11/12/2003	

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)			
Office Action Summary		08/905,709	STERN ET AL.			
		Examiner	Art Unit			
	•	Ruixiang Li	1646			
	The MAILING DATE of this communication app		<u> </u>			
P riod fo			•			
THE - External after of the control	IORTENED STATUTORY PERIOD FOR REPLY MAILING DATE OF THIS COMMUNICATION. Insions of time may be available under the provisions of 37 CFR 1.13 In SIX (6) MONTHS from the mailing date of this communication. In period for reply specified above is less than thirty (30) days, a reply compared properly is specified above, the maximum statutory period priod for reply within the set or extended period for reply will, by statute reply received by the Office later than three months after the mailing ed patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be ting within the statutory minimum of thirty (30) day will apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).			
1)[Responsive to communication(s) filed on <u>01 A</u>	August 2003				
2a)⊠	This action is FINAL . 2b) ☐ Th	is action is non-final.				
3)	Since this application is in condition for allowa					
Disposit	closed in accordance with the practice under a ion of Claims	Ex parte Quayle, 1935 C.D. 11, 4	153 O.G. 213.			
4)🖂	4)⊠ Claim(s) <u>1-4,8,9,15-18,36,37 and 40-46</u> is/are pending in the application.					
	4a) Of the above claim(s) $\underline{40-45}$ is/are withdraw	n from consideration.				
5)	Claim(s) is/are allowed.					
6)⊠ Claim(s) <u>1-4,8,9,15-18,36,37 and 46</u> is/are rejected.						
7)[Claim(s) is/are objected to.					
•	Claim(s) are subject to restriction and/or	r election requirement.				
	ion Papers					
	The specification is objected to by the Examiner					
10)∐	The drawing(s) filed on is/are: a)□ accep					
44)	Applicant may not request that any objection to the					
11)[_]	The proposed drawing correction filed on		oved by the Examiner.			
42)□	If approved, corrected drawings are required in rep	•				
,	The oath or declaration is objected to by the Exa	aminer.				
	under 35 U.S.C. §§ 119 and 120	- in the cond- 05 H 0 0 C 440/-	\			
·	Acknowledgment is made of a claim for foreign	priority under 35 U.S.C. § 119(a)-(a) or (1).			
a)	☐ All b)☐ Some * c)☐ None of:	a bassa basa sa sa Sand				
	1. Certified copies of the priority documents		an Na			
	2. Certified copies of the priority documents					
* 5	3. Copies of the certified copies of the prior application from the International But See the attached detailed Office action for a list	reau (PCT Rule 17.2(a)).	_			
	Acknowledgment is made of a claim for domestic	·				
a) The translation of the foreign language provisional application has been received.						
	Acknowledgment is made of a claim for domesti					
Attachmen	nt(s)					
2) Notic	ce of References Cited (PTO-892) ce of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449) Paper No(s)	5) Notice of Informal F	(PTO-413) Paper No(s) Patent Application (PTO-152)			

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DETAILED ACTION

Status of Application, Amendments, and/or Claims

Applicants' amendment filed on August 11, 2003 has been entered in full. Claims 38

and 39 have been canceled. Claim 1 has been amended. Claims 1-4, 8, 9, 15-18, 36,

37, and 40-46 are pending. Claims 1-4, 8, 9, 15-18, 36, 37, and 46 are currently under

consideration.

The text of those sections of Title 35, U.S. Code not included in this action can be found

in a prior Office Action.

Withdrawn Rejections/Objections

As a result of Applicants' amendment, all rejections/objections not reiterated herein

have been withdrawn by the Examiner.

Priority

The subject matter defined in claims 1-4, 8, 9, 15-18, 36, 37, and 46 has been

determined to have an effective filing date of August 5, 1997, which is the filing date of

the Application 08/905,709. Application 08/592,070 (filed on January 26, 1996) fails to

provide adequate support under 35 USC §112 for the instantly claimed invention.

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Applicants argue that Applications 08/592,070 provides adequate support under 35 USC §112 for the subject matter of claims 1-4, 8, 9, 15-18, 36, 37, and 46, as amended. This has been fully considered but is not deemed to be persuasive for the following reasons. While disclosing (i) a method for inhibiting interaction of an amyloid-β peptide with a receptor for advanced glycation end product (RAGE) on the surface of a cell which comprises contacting the cell with an agent capable of inhibiting interaction of the amyloid-B peptide with the RAGE (top of page 11), (ii) the use of soluble RAGE as the agent in the method (bottom of page 11), and (iii) the RAGE NH2-terminal sequence (Table 1, page 29), the applications 08/592,070 fails to contemplate and enable the claimed invention, as amended. The specification of application 08/592,070 merely asserts a method for treating a subject with a condition associated with interaction of an amyloid-β peptide with an RAGE on a cell, which comprises administering to the subject an agent capable of inhibiting interaction of the amyloid-β peptide with the RAGE (bottom of page 13). The long list of conditions includes diabetes, Alzheimer's disease, senility, renal failure, hyperlipidemic atherosclerosis, neuronal cytotoxicity, Down's syndrome, dementia associated with head trauma, amyotrophic lateral sclerosis, mutiple sclerosis or neuronal degeneration (bottom of page 13). There is no demonstration that the interaction of amyloid-β peptide with the RAGE is actively involved in each of these diseases, including hyperlipidemic atherosclerosis; there is no disclosure of treatment of a condition, including hyperlipidemic atherosclerosis, with the extracellular domains of RAGE or sRAGE; there is no sufficient guidance or working examples provided to teach an artisan how to treat a condition, including hyperlipidemic atherosclerosis with a method comprising administering sRAGE. There was no

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sufficient teaching in the art regarding the treatment of hyperlipidemic atherosclerosis with sRAGE at the time the application 08/592,070 was filed. Therefore, the application

of 08/592,070 fails to contemplate and enable the claimed invention.

Claim Rejections Under 35 U. S. C. § 112, 2nd Paragraph

Claims 1-4, 8, 9, 15-18, 36, 37, and 46 are rejected under 35 U.S.C. 112, second

paragraph, as being indefinite for failing to particularly point out and distinctly claim the

subject matter which applicant regards as the invention.

Claim 1 is indefinite because it recites " "the extracellular domain of soluble receptor for

advanced glycation endoproduct (sRAGE)". The specification of 08/905,709 defines

sRAGE as "the extracellular portion of RAGE" (page 31, lines 27-28), whereas the

specification of 08592070 defines sRAGE" as the extracellular domain of RAGE (page

30, line 15). From these definitions, it is clear that the term sRAGE itself is the

extracellular domain. Thus, recitation of "the extracellular domain of soluble receptor for

advanced glycation endoproduct (sRAGE)" in the claim is confusing. In addition, there is

no sequence identifier (SEQ ID NO) provided for the specific extracellular domain

recited in the claim, it is unclear which extracellular domain (sRAGE) or which RAGE is

referred to, rendering the claim indefinite. It is suggested that a sequence identifier be

provided for RAGE, sRAGE, and AGE. Claims 2-4, 8, 9, 15-18, 36, 37, and 46 depend

from claim 1.

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Claim Rejections Under 35 U. S. C. § 102(e)

The rejection of claims 1-4, 8, 9, 15-18, 36, 37, and 46 under 35 U.S.C. § 102 (e), as set

forth at pages 5-7 in Paper No. 21 & 24 remains.

Applicants argue that the claimed invention is entitled to a priority date of January 26,

1996. This has been fully considered but is not deemed to be persuasive because

application 08/592,070, filed on January 26, 1996, fails to contemplate and enable the

instantly claimed invention as a whole, as noted above.

Conclusion

No claims are allowed.

Applicant's amendment necessitated the new ground(s) of rejection presented in this

Office action. Accordingly, THIS ACTION IS MADE FINAL. See MPEP § 706.07(a).

Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a). A

shortened statutory period for reply to this final action is set to expire THREE MONTHS

from the mailing date of this action. In the event a first reply is filed within TWO

MONTHS of the mailing date of this final action and the advisory action is not mailed

until after the end of the THREE-MONTH shortened statutory period, then the shortened

statutory period will expire on the date the advisory action is mailed, and any extension

fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory

action. In no event, however, will the statutory period for reply expire later than SIX

MONTHS from the date of this final action.

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Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Ruixiang Li whose telephone number is (703) 306-0282.

The examiner can normally be reached on Monday-Friday, 8:30 am-5:00 pm. If

attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Yvonne Eyler, can be reached on (703) 308-6564. The fax phone number

for this Group is (703) 305-3014 or (703) 308-4242.

Communications via Internet e-mail regarding this application, other than those under

35 U.S.C. 132 or which otherwise require a signature, may be used by the applicant and

should be addressed to [yvonne.eyler@uspto.gov]. All Internet e-mail communications

will be made of record in the application file. PTO employees do not engage in Internet

communications where there exists a possibility that sensitive information could be

identified or exchanged unless the record includes a properly signed express waiver of

the confidentiality requirements of 35 U.S.C. 122. This is more clearly set forth in the

Interim Internet Usage Policy published in the Official Gazette of the Patent and

Trademark on February 25, 1997 at 1195 OG 89. Any inquiry of a general nature or

relating to the status of this application or proceeding should be directed to the Group

receptionist whose telephone number is (703) 308-0196.

Ruixiang Li Examiner November 4, 2003 CARY KUNZ
SUPERVISORY PATENT EXAMINER

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